

# FEDERAL COMMUNICATIONS COMMISSION

CLASS OF STATION FM

LCJ

46

The following application is submitted for action by the Chief, Broadcast Bureau.

ST	FILE NUMBER	CALL	APPLICANT AND LOCATION	NATURE OF APPLICATION
TX	BPED -920413MF N/M	NEW 89.7MHZ	BRAZOS EDUCATIONAL RADIO COLLEGE STATION TX	CP FOR NEW EDUC FM STATION ON: 89.7 MHZ., ERP: .200 KW (H&V) HAAT: 56 METERS (H&V) 30 38 43 96 21 26

LICENSE EXPIRATION DATE \_\_\_\_\_

*PN: 4/24/92*

*for Lewis C. Jones*  
\_\_\_\_\_  
CHIEF, LICENSE DIVISION

RECOMMENDATION: GRANT( ) CONSTRUCTION DATES, START \_\_\_\_\_ END \_\_\_\_\_

CONTESTED ( ) UNCONTESTED ( )

*TDN*

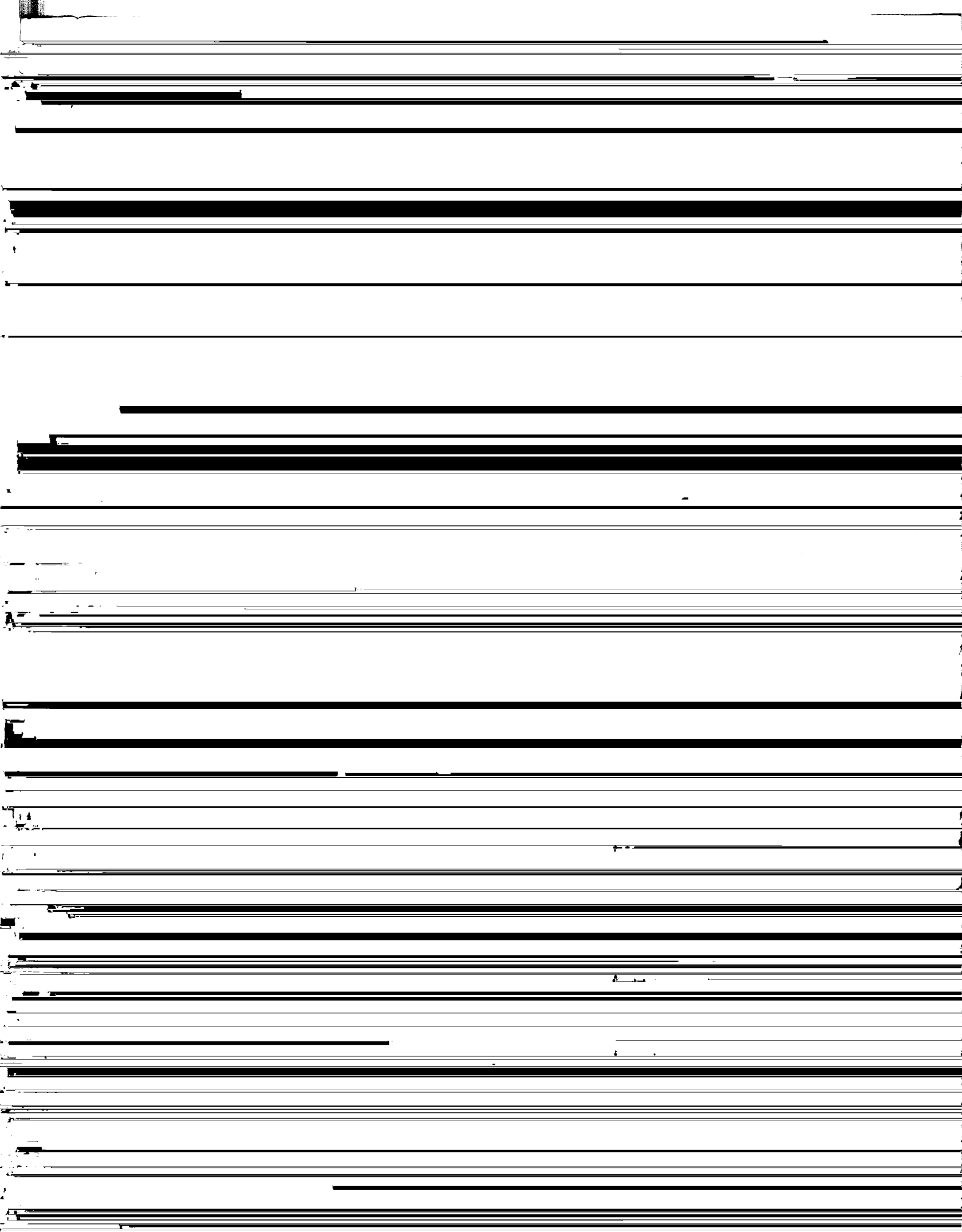
*7/10/92*

+

APPROVED \_\_\_\_\_

FOR CHIEF, BROADCAST BUREAU

F.C.C.-WASHINGTON, D.C.



APPLICATION FOR CONSTRUCTION PERMIT FOR  
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION  
(Carefully read instructions before filing form) Return only form to FCC

APR 14 10 54 AM '92

Section I - GENERAL INFORMATION

Code: 30  
PN: 4/24/92

For Commission Use Only

File No. BPED-920413 MF

1. Name of Applicant <b>BRAZOS EDUCATIONAL RADIO</b>		
<b>RECEIVED</b> <b>APR 13 1992</b>		
Street Address or P.O. Box P.O. Box 78		
City College Station	State TX	ZIP Code 77841
Telephone No. (Include Area Code) (409) 846-7717		

Send notices and communications to the following person at the address below:		
Name Eric Truax **		
Street Address or P.O. Box P.O. Box 78		
City College Station	State TX	ZIP Code 77841
Telephone No. (Include Area Code) (409) 846-7717		

2. This application is for:

☐

AM

☒

FM

☐

TV

(a) Channel No. or Frequency

209

(b) Principal  
Community

City

College Station

State

TX

(c) Check one of the following boxes:

☒

Application for NEW station

☐

MAJOR change in licensed facilities; call sign: \_\_\_\_\_

☐

MINOR change in licensed facilities; call sign: \_\_\_\_\_

☐

MAJOR modification of construction permit; call sign: \_\_\_\_\_

File No. of construction permit: \_\_\_\_\_

☐

MINOR modification of construction permit; call sign: \_\_\_\_\_

File No. of construction permit: \_\_\_\_\_

☐

AMENDMENT to pending application; application file number: \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application?

☐

Yes

☒

No

If Yes, state:	Call letters	Community of License	
		City	State

\*\*copy to: Harry Cole, Bechtel & Cole, 1901 L Str., NW, Suite 250, Washington, DC 20036

## Section II - LEGAL QUALIFICATIONS

Name of Applicant

**BRAZOS EDUCATIONAL RADIO**

1. Applicant is: *(Check one box below)*

- ☐ (a) governmental or public educational agency, board or institution
- ☐ (b) private nonprofit educational institution
- ☒ (c) Other *(specify)* private nonprofit educational corporation

2. For applicants 1(c) only, describe in an Exhibit the nature and educational purposes of the applicant.

Exhibit No.  
**1**

3. For applicants 1(c) applying for a new noncommercial educational television station only, describe in an Exhibit how the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural and civic segments of the principal community to be served.

Exhibit No.  
**N/A**

4. Describe in an Exhibit how the proposed station will be used, in accordance with 47 C.F.R. Section 73.503 or Section 73.621, for the advancement of an educational program.

Exhibit No.  
**2**

5. Is there any provision contained in any by-laws, articles of incorporation, partnership agreement, charter, statute or other document which would restrict the applicant in advancing an educational program or complying with any Commission rule, policy or provision of the Communications Act of 1934, as amended?

☐ Yes ☒ No

If Yes, provide particulars in an Exhibit.

**N/A**

Exhibit No.

### CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS

6. (a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments? (See Instruction B to Section II.)

☐ Yes ☒ No

(b) Will any funds, credits or other financial assistance for the construction, purchase or operation of the station(s) be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents?

☐ Yes ☒ No

If the answer to (b) above is Yes, attach an Exhibit giving full disclosure concerning this assistance.

**N/A**

Exhibit No.

7. (a) Has an adverse finding been made or an adverse final action taken by any court or administrative body as to the applicant or any party to this application in a civil or criminal proceeding brought under the provisions of any law related to the following:

Any felony; broadcast related antitrust or unfair competition; criminal fraud or fraud before another governmental unit; or discrimination?

☐ Yes ☒ No

(b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred to in (a) above?

☐ Yes ☒ No

If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving full disclosure concerning persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), a statement of the facts upon which the proceeding is or was based or the nature of the offense alleged or committed, and a description of the current status or disposition of the matter.

Exhibit No.  
**N/A**

## PARTIES TO APPLICATION

8. Complete the following Table with respect to all parties to this application:

(NOTE: If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.)

**INSTRUCTIONS:** If applicant is a corporation or an unincorporated association with 50 or fewer stockholders, stock subscribers, holders of membership certificate or other ownership interest, fill out all columns, giving the information requested as to all officers, directors and members of governing board. In addition, give the information as to all persons or entities who are the beneficial or record owners of or have the right to vote capital stock, membership or ownership interests or are subscribers to such interests. If the applicant has more than 50 stockholders, stock subscribers or holders of membership certificates or other ownership interests, furnish the information as to officers, directors, members of governing board, and all persons or entities who are the beneficial or record owners of or have the right to vote 1% or more of the capital stock, membership or ownership interests. If applicant is a governmental or public educational agency, board or institution, fill out columns (a), (b), and (c) as to all members of the governing board and chief executive officers.

Name and Residence Address(es)  (a)	Office Held  (b)	Director or Member of Governing Board		% of: Ownership (O) or Voting Stock (VS) or Membership (M)  (d)
		YES	NO	
		(c)		
JANINA R. HURTADO 1010-B Foster College Station, TX 77840	Director	X		Does not apply to nonprofit corporation
ERIC W. TRUAX 804-B Inlow Blvd. College Station, TX 77840	Director	x		
ELIZABETH WEISSINGER 1010-A Foster College Station, TX 77840	President	x		

**Section II - LEGAL QUALIFICATIONS (Page 3)**

9. Does the applicant or any party to this application have, or have they had, any interest in:

(a) a broadcast station, or pending broadcast station application before the Commission?

☐ Yes ☒ No

(b) a broadcast application which has been dismissed with prejudice by the Commission?

☐ Yes ☒ No

(c) a broadcast application which has been denied by the Commission?

☐ Yes ☒ No

(d) a broadcast station, the license of which has been revoked?

☐ Yes ☒ No

(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant?

☐ Yes ☒ No

If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information:

N/A

Exhibit No.

(1) Name of party having interest;

(2) Nature of interest or connection, giving dates;

(3) Call letters of stations or file number of application or docket; and

(4) Location.

### SECTION III - FINANCIAL QUALIFICATIONS

Note: If this application is for a change in an operating facility, DO NOT fill out this Section.

1. Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration? ☐ Yes ☒ No

2. Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision? ☐ Yes ☒ No

NOTE: If either Questions 1 or 2 is answered "Yes," your application cannot be granted until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration, no further action on your part is required. If you rely on funds from a source specified in Question 2, **you must advise the F.C.C. when the funds are committed or appropriated.** This should be accomplished by letter amendment to your application, in triplicate, signed in the same manner as the original application, and clearly identifying the application to be amended.

3. The applicant certifies, except as noted above, that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without additional funds. ☒ Yes ☐ No

### SECTION IV - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area.

Exhibit No.

3

NOTE: No program service statement need be filed where the proposed station's programming would be wholly "instructional" as that type of programming is defined in the Instructions to this Section.

## SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees?

☐ Yes ☒ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

## SECTION VII - CERTIFICATION

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580?

☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

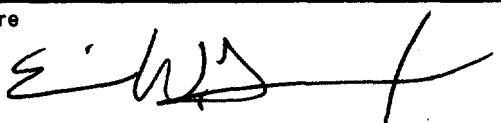
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.  
U.S. CODE, TITLE 18, SECTION 1001.**

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant <b>BRAZOS EDUCATIONAL RADIO</b>	Title <b>Eric W. Truax, Board Member</b>
Signature 	Date <b>4/10/92</b>

### FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT.

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 76 to 80 hours with an average of 78 hours 04 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0034), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552(a)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

**BRAZOS EDUCATIONAL RADIO  
EXHIBIT 1**

**NATURE OF APPLICANT  
April, 1992**

Brazos Educational Radio is an educational nonprofit corporation formed for cultural and educational purposes with the specific purpose of operating a noncommercial educational radio station.

**BRAZOS EDUCATIONAL RADIO  
EXHIBIT 2**

**ADVANCEMENT OF AN EDUCATIONAL PROGRAM  
April, 1992**

The proposed station will provide a wide range of cultural and educational programming that is presently unavailable in the area, including programs for and by students, women and minorities.

The station will also be used for the advancement of educational programs by providing radio production training and airtime to members of the community (including, but not limited to, the student, university, and surrounding communities). It will provide continuing workshops, seminars and presentations on various aspects of radio broadcasting and the media. The station will seek to work with various departments of Texas A&M University in the advancement of these educational opportunities.

The proposed station will provide significant participatory educational opportunity to student groups, particularly from Texas A&M University, as well as opportunities to underserved minority and women's organizations and members of Texas A&M University's international student community.

**BRAZOS EDUCATIONAL RADIO  
EXHIBIT 3**

**PROGRAM SERVICE STATEMENT  
April, 1992**

The purpose of establishing the proposed station is to provide cultural and educational programming that is currently unavailable in the area. The station's programming policies will seek to meet the needs of underserved segments of the community, including the needs of students, women and minorities, as well as the general populace, and will serve as a local educational communications training resource for the community.

The station's programs will seek to provide insight and information about these underserved segments of the community and will be committed to providing news, live coverage of community events, information on local and regional governmental activities, coverage of Texas A&M University student activities, discussions of interest relating to the cultural and social diversity of the community, and cultural and instructional programming. Significant attention will be paid to issues of local concern, including those of students, women and minorities, as well as the general populace and will encourage community-wide discussion of these issues.

The programming policies of the proposed station will allow and encourage open discussion and investigation of any reasonable and responsible opinion or subject. The policies will seek to encourage a diversity of programming, including programs by and for women, minorities, students, and local arts organizations, with a high degree of community access to the station being encouraged to highlight the area's multicultural diversity.

## CERTIFICATION OF SITE AVAILABILITY

The applicant hereby certifies that it has reasonable assurance, in good faith, that the site or proposed structure proposed in Section V of its application, as amended, as the location of its transmitting antenna will be available to the applicant for the applicant's intended purpose.

This reasonable assurance is not based on the applicant's ownership of the proposed site or structure. The applicant hereby certifies that it has obtained such reasonable assurance by contacting the owner, the owner's agent, or a person possessing control of the site or structure.

Name of person Contacted: CHARLES CULVER  
Telephone number: (409) 775-2929

Owner Owner's Agent Other (specify)

BY: ERIC TRUAX / BRAZOS EDUCATIONAL RADIO  
TITLE: BOARD MEMBER  
DATE: 4/8/92

**ENGINEERING STATEMENT  
ON BEHALF OF  
BRAZOS EDUCATIONAL RADIO  
NEW EDUCATIONAL FM STATION  
CH209-A 89.7 MHz 4300 W 56 METERS  
COLLEGE STATION, TEXAS**

**TABLE OF CONTENTS**

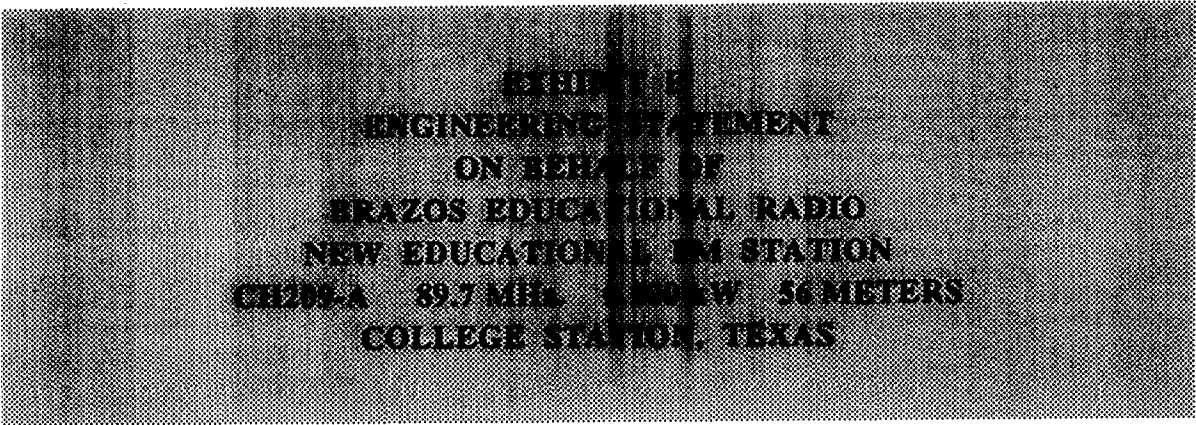
**FCC FORM 340 SECTION VB**

INTRODUCTION . . . . .	PAGE 1
ALLOCATION STUDY . . . . .	PAGE 1
CHANNEL SIX INTERFERENCE STUDY . . . . .	PAGE 2
ELEVATION AND CONTOUR DATA . . . . .	PAGE 3
NON-IONIZING RADIATION CALCULATIONS . . . . .	PAGE 3
AERONAUTICAL AND ENVIRONMENTAL IMPACT . . . . .	PAGE 6
STATEMENT OF INTERFERENCE . . . . .	PAGE 7

---

**PREPARED BY:**

**BROADCAST TECHNICAL, INC.  
NEW ORLEANS, LOUISIANA  
April, 1992**



### FIGURES INDEX

FIGURE 1 . . . . .	TRANSMITTER SITE LOCATION MAP
FIGURE 2 . . . . .	ALLOCATION STUDY MAP
FIGURE 2A . . . . .	ALLOCATION STUDY DATA
FIGURE 3 . . . . .	ANTENNA SKETCH
FIGURE 4 . . . . .	CONTOUR MAP
FIGURE 5 . . . . .	TV-6 INTERFERENCE STUDY MAP
FIGURE 5A . . . . .	TV-6 INTERFERENCE STUDY DATA
FIGURE 6 . . . . .	CONTOUR DATA

---

PREPARED BY:

BROADCAST TECHNICAL, INC.  
NEW ORLEANS, LOUISIANA

*April, 1992*

# Section V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. \_\_\_\_\_

ASB Referral Date \_\_\_\_\_

Referred by \_\_\_\_\_

Name of Applicant

Brazos Educational Radio

Call letters (if issued)

None

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: \_\_\_\_\_

Purpose of Application: (check appropriate boxes)

☒ Construct a new (main) facility

☐ Construct a new auxiliary facility

☐ Modify existing construction permit for main facility

☐ Modify existing construction permit for auxiliary facility

☐ Modify licensed main facility

☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

☐ Antenna supporting-structure height

☐ Effective radiated power

☐ Antenna height above average terrain

☐ Frequency

☐ Antenna location

☐ Class

☐ Main Studio location

☐ Other (Summarize briefly)

File Number(s) \_\_\_\_\_

## 1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
209	College Station	Brazos	TX

Class (check only one box below)

☒ A ☐ B1 ☐ B ☐ C3  
☐ C2 ☐ C1 ☐ C ☐ D

## 2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

2614 Maloney St., Bryan, Brazos County, Texas

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	30°	38'	43"	Longitude	96°	21'	26"
----------	-----	-----	-----	-----------	-----	-----	-----

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both.

K63DL File # BLTT-880408IE

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

No Change is proposed in height

4. Does the application propose to correct previous site coordinates?

☐ Yes ☒ No

If Yes, list old coordinates.

Latitude	0	'	"	Longitude	0	'	"
----------	---	---	---	-----------	---	---	---

5. Has the FAA been notified of the proposed construction?

☐ Yes ☒ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. FAA # HOU-OE-67-5 for existing tower

Exhibit No.

Date \_\_\_\_\_ Office where filed \_\_\_\_\_

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

Landing Area	Distance (km)	Bearing (degrees True)
(a) Easterwood	4 km	190° True
(b)		

7. (a) Elevation: (to the nearest meter)

(1) of site above mean sea level; 96 meters(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 103 meters(3) of the top of supporting structure above mean sea level [ (aX1) + (aX2) ] 199 meters

(b) Height of radiation center: (to the nearest meter) H = Horizontal; V = Vertical

(1) above ground 46 meters (H)46 meters (V)(2) above mean sea level [ (aX1) + (bX1) ] 142 meters (H)142 meters (V)(3) above average terrain 56 meters (H)56 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.  
A

9. Effective Radiated Power:

(a) ERP in the horizontal plane .200 kw (H\*) .200 kw (V\*)

(b) Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.  
N/A

\_\_\_\_\_ kw (H\*) \_\_\_\_\_ kw (V\*)

\*Polarization

10. Is a directional antenna proposed?

☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field.

Exhibit No.  
N/A

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour?

☐ Yes ☒ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.  
Studio to be located within city of license pursuant to 73.1125 (A)(3) of the Rules.

Exhibit No.

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed

☒ Yes ☐ No

17. For an application involving an auxiliary facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.: \_\_\_\_\_)

18. Terrain and coverage data (to be calculated in accordance with 47 C.F.R. Section 73.313).

Source of terrain data: (check only one box below)

☒ Linearly interpolated 30-second database

☐ 7.5 minute topographic map

(Source: NGDC)

☐ Other (briefly summarize):

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0	41	7.9
45	51	8.8
90	60	9.5
135	54	9.1
180	61	9.6
225	72	10.4
270	63	9.8
315	47	8.5

#### Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico?

☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

Exhibit No.  
N/A

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada?

☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947.

Exhibit No.  
N/A

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following:

Exhibit No.  
E

- (a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
- (b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
- (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
- (d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
- (e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
- (f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
- (g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (h) The name of the map(s) used in the Exhibit(s).

22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ *(separation requirements involving intermediate frequency (i.f.) interference)*.

Exhibit No.  
F

23.(a) Is the proposed operation on Channel 218, 219, or 220?

☐ Yes ☒ No

(b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207?

☐ Yes ☐ No

(c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223.

Exhibit No.  
N/A

(d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.  
N/A

1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 6)

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.  
N/A

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibit(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

☒ Yes ☐ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No.  
G

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

☐ Yes ☒ No

If Yes, attach as an Exhibit information required in 1/. (Except for Class B (secondary) proposals.)

Exhibit No.  
N/A

26. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

☐ Yes ☒ No


If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.  
N/A

If No, explain briefly why not. Proposal is categorically excluded from environmental processing pursuant to Section 1.1306 of FCC Rules.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
Kenneth Devine	Telecommunications Consultant
Signature	Address (Include ZIP Code)
	Broadcast Technical, Inc. P.O. Box 13475 New Orleans, LA 70185
Date	Telephone No. (Include Area Code)
April 9, 1992	(504) 866-3846

**EXHIBIT E**  
**ENGINEERING STATEMENT**  
**ON BEHALF OF BRAZOS EDUCATIONAL RADIO**  
**NEW EDUCATIONAL FM STATION**  
**CH 209A 89.7 MHz 0.250 kW 56 METERS**  
**COLLEGE STATION, TEXAS**

**INTRODUCTION**

This engineering statement, together with Section V-B of FCC Form 340 to which it is attached as Exhibit E, furnishes technical data in support of an application by Brazos Educational Radio for a new Educational FM broadcast facility licensed to College Station, Texas.

All calculations, contours and other technical information contained in or attached to this statement have been determined in accordance with the existing rules of the Federal Communications Commission (FCC Rules).

**ALLOCATION STUDY**

Figures 2, and 2A of this exhibit present the results of a detailed channel allocation/interference study. As detailed in the above-referenced figures, the use of

## **CHANNEL SIX INTERFERENCE STUDY**

In accordance with Section 73.525(a)(1) of the Commission's Rules, a study was conducted to determine whether the proposed facilities would affect any existing or proposed Channel 6 operations. The closest known Channel 6 operation is KCEN-TV which is licensed to Temple-Waco, Texas, and is within 196 kilometers of the proposed operation.

73.525(e)(3)(i) states that population of areas within the Grade A contour of a translator station carrying the affected Channel 6 station in an area of interference to Channel 6 may be subtracted from the total count of population receiving interference from the Educational FM station. In this case, there is a translator (K63DL) which carries the KCEN-TV signal.

The applicant proposes to locate on the same tower as K63DL. As shown in Figure 5, given the ERP and HAAT proposed in the instant application, the resultant interference area lies entirely within the Grade A contour of K63DL. The interference area was calculated using a computer method which is in accordance with the procedures outlined in Section 73.525 of the Commission's rules. The tabulated data utilized to prepare Figure 5 is presented in Figure 5A.

Accordingly, the affected population receiving interference from the proposed Educational FM station would therefore be zero pursuant to 73.525(e)(2) and 73.525(e)(3). Whereas the actual affected population residing within the interference area is less than 3,000 persons, it is believed that the facilities proposed in this application are substantially in compliance with all provisions of Section 73.525 of the Commission's Rules.

## **ELEVATION AND CONTOUR DATA**

The average elevations from three to sixteen kilometers from the proposed site along the eight required radials were determined using a computer method in accordance with the procedures specified in Section 73.312(d) using the 30 Second Point Data File of the National Geophysical Data Center.

Figure 6 is a tabulation of average elevations, effective antenna heights and distances to the 60 dBu coverage contours and the 100 dBu, 80 dBu, 54 dBu and 40 dBu interference contours. The contour data of Figure 6 were determined through a computer method similar to the method outlined in Section 73.313 of the FCC Rules.

The proposed 1.0 mV/m (60 dbu) contour has been plotted from the data in Figure 6, and is shown on the coverage map attached as Figure 4.

## **NON-IONIZING RADIATION CALCULATIONS**

In accordance with the Commission's rules, an assessment was made of the proposed facility's radio frequency radiation levels. Table 1 of OST Bulletin No.65 dated October 1985 was utilized to determine that the proposed facility would not exceed any standards for radio frequency radiation as defined by ANSI C95.1-1982.

Listed below is the methodology utilized to determine that the construction of the proposed facilities would not constitute a radiation hazard pursuant to the Commission's rules currently in effect.

Applicant is proposing to locate at a site occupied by an existing TV station. An analysis of RF radiation at the site was performed using the outline given in OST Bulletin 65 dated October, 1985. The general analysis was done by making certain assumptions, then calculating the power density at ground level and finding the per-

centage of the allowable level. These various contributing percentages were added to get the final percentage of allowable radiation.

It was assumed that if the final percentage was less than 100%, then the addition of proposed operation to the site would present no radiation hazard. As will be demonstrated, the proposed facility adds 0.63% to the final total of 0.85%. Thus the addition of proposed operation to the site would present no radiation hazard.

**The following assumptions were made for the FM analysis:**

1. All FM facilities within 1 km. are considered to be at the same site as the proposed site.
2. All FM stations were considered to be circularly polarized.
3. Worst case downward radiation was used.
4. Stations located more than 1 km. from the site are not included in the analysis.
5. S, the power density at ground level was calculated using the following formula:

$$S = \frac{(0.64) (1.64) (\text{Power}) (1000)}{(\Pi)(\text{Distance})^2}$$

**Where:**

S = Power Density at ground level in milliwatts/square centimeter

$\Pi = 3.1416$

**Power** = total power in watts

**$R$**  = distance from base of tower to center of radiation in cm